

Title (en)
SPRING CLAMPING CYLINDER

Publication
EP 0212047 A3 19890426 (DE)

Application
EP 86102706 A 19860301

Priority
DE 3526573 A 19850725

Abstract (en)
[origin: EP0212047A2] To rapidly clamp tool parts, a spring clamping cylinder is proposed which essentially consists of a cylinder (1) and a spring-loaded piston (4) guided in the cylinder (1) and having a piston rod (3), in which arrangement the free end of the piston rod (3) has a head (3a) designed as a negative (female) part of a bayonet catch (12). The associated, corresponding positive (male) part is the head piece (17) of a screw which is screwed into a tapped hole in the machine part (20) to which a workpiece (19) is to be clamped. The end remote from the catch side has a socket which is part of a hydraulic quick-acting coupling (10) with which pressure can be exerted on the piston (4) against the spring force. The use of this quick-acting clamping nut is especially suitable in heating presses for tyres or in plastic blow moulding machines, especially for fastening tyre parts or blow mouldings. <IMAGE>

IPC 1-7
B23Q 3/06; **B23B 31/04**; **B25B 5/06**; **B29C 33/30**

IPC 8 full level
B25B 5/06 (2006.01)

CPC (source: EP)
B25B 5/06 (2013.01); **B25B 5/061** (2013.01)

Citation (search report)
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